

GKN Löbro GmbH  
Carl-Legien-Strasse 10  
63073 Offenbach

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### Counter track joint

#### Abstract

A constant velocity universal ball joint consisting of  
an outer joint part with outer ball tracks,  
an inner joint part with inner ball tracks,  
torque transmitting balls guided in pairs of tracks formed of  
one outer ball track and one inner ball track,  
an annular ball cage held between the outer joint part and the  
inner joint part and having circumferentially distributed cage  
windows each receiving one of the balls,  
the ball cage forms an inner face which is internally widened  
between two end apertures of the ball cage,  
the inner joint part comprises a greatest outer diameter which  
is greater than each of the inner diameters of the end aper-  
tures of the ball cage,  
adjoining inner ball tracks of the inner joint part form webs  
whose axial length is greater than the circumferential exten-  
sion of the cage windows of the ball cage,  
the ball cage can be elastically ovalised to the extent that,  
when the axes of the ball cage and of the inner joint part in-  
tersect one another approximately perpendicularly upon contact  
between a web of the inner joint part and the inner face of  
the ball cage, the opposed web of the inner joint part is able  
to pass through an end aperture.

Figure 1